AUTODOC CLUB

# How to change rear brake pads on **BMW E90** – replacement guide

## VIDEO TUTORIAL



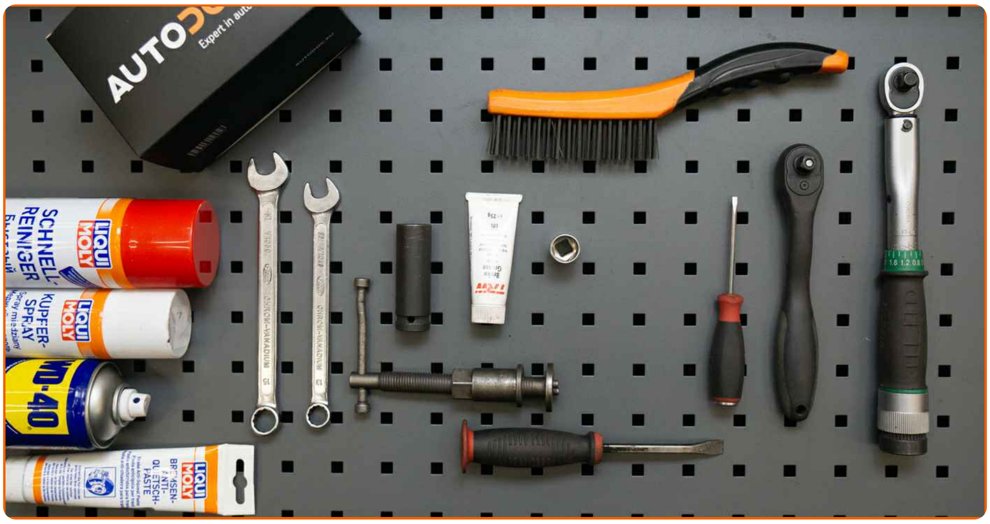

### Important!

This replacement procedure can be used for:
BMW 3 Touring (E91) 325i 3.0, BMW 3 Touring (E91) 318d 2.0, BMW 3 Saloon (E90) 318d 2.0, BMW X1 (E84) xDrive 28 i, BMW 3 Touring (E91) 318i 2.0, BMW 3 Touring (E91) 316d 2.0, BMW 3 Saloon (E90) 320d xDrive 2.0, BMW X1 (E84) sDrive 20 i, BMW X1 (E84) xDrive 20 i, BMW 1 Coupe (E82) 118d 2.0, BMW 3 Coupe (E92) 318i 2.0, BMW 3 Convertible (E93) 318i 2.0, BMW 1 Hatchback (E81) 120d 2.0, BMW 3 Saloon (E90) 320i 2.0, BMW 3 Saloon (E90) 325i 2.5, (+ 71)

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The steps may slightly vary depending on the car design.

## REPLACEMENT: BRAKE PADS – BMW E90. TOOLS YOU MIGHT NEED:




- Wire brush
- WD-40 spray
- Brake cleaner
- Anti-squeal paste
- Copper grease
- Combination spanner #13
- Combination spanner #15
- Drive socket # 13
- Wheel impact socket #17
- Torque wrench
- Brake caliper wind back tool
- Flat Screwdriver
- Crow bar
- Wheel chock

BUY TOOLS

## Replacement: brake pads – BMW E90. AUTODOC recommends:

- Perform the replacement of brake pads in complete set for each axis. This provides effective braking.
- The replacement procedure is identical for all brake pads on the same axle.
- Please note: all work on the car – BMW E90 – should be done with the engine switched off.

## CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

**1** Open the bonnet. Unscrew the brake fluid reservoir cap.



**2** Secure the wheels with chocks.



**3** Loosen the wheel mounting bolts. Use wheel impact socket #17.



4 Raise the rear of the car and secure on supports.

5 Unscrew the wheel bolts.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts. BMW E90

6 Remove the wheel.



7 Clean the brake caliper fasteners. Use a wire brush. Use WD-40 spray.

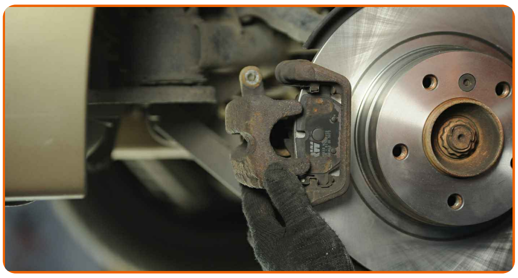
8 Unscrew the brake caliper fastening. Use a combination spanner #13. Use a combination spanner #15.



**9** Spread the brake pads. Use a crowbar.



**10** Remove the brake caliper.



## Replacement: brake pads – BMW E90. AUTODOC experts recommend:

- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result, the piston can fall out from the brake cylinder, and brake fluid leakage and depressurization of the system may occur.
- Check the brake caliper bracket, brake caliper guide pins and boots. Clean them. Replace, if necessary.

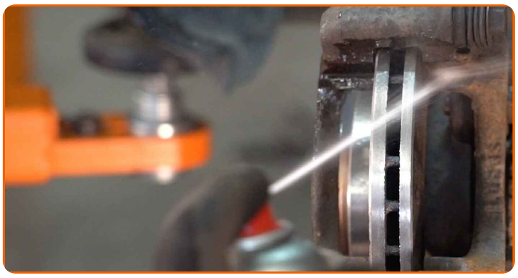
**11** Remove the brake pads. Use a flat screwdriver.



**12** Remove the brake pads retaining clips. Use a flat screwdriver.



**13** Clean the brake caliper bracket from dirt and dust. Use a wire brush. Use a brake cleaner.



## AUTODOC recommends:

- Replacement: brake pads – BMW E90. After applying the spray, wait a few minutes.

**14** Install the brake pads retaining clips.



**15** Treat the brake pads in the area where their surface comes into contact with the brake caliper bracket. Use anti-squeal paste.



### Replacement: brake pads – BMW E90. AUTODOC recommends:

- Make sure the disc surface is clean before installing the pads.

**16** Install new brake pads.



### Replacement: brake pads – BMW E90. Tip:

- Make sure the pads are installed with linings facing the disc.

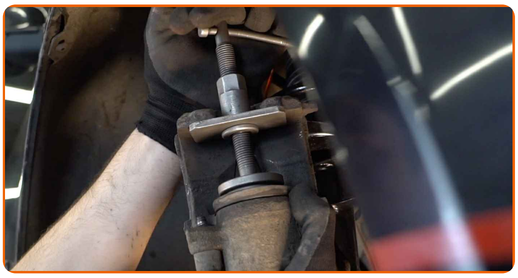
**17** Treat the brake caliper piston. Use a brake cleaner.



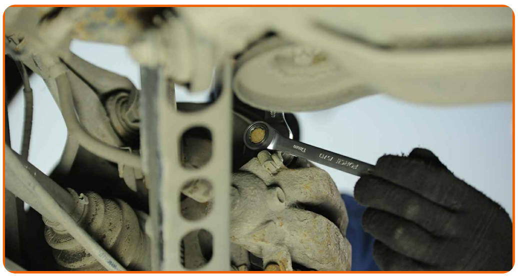
AUTODOC recommends:

- Replacement: brake pads – BMW E90. After applying the spray, wait a few minutes.

**18** Press in the brake caliper piston. Use brake caliper wind back tool.



**19** Install the brake caliper and fix it. Use a combination spanner #15. Use a drive socket #13. Use a torque wrench. Tighten it to 35 Nm torque.



**20** Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



**21** Clean the brake disk surface. Use a brake cleaner.



## Replacement: brake pads – BMW E90. Tip from AUTODOC experts:

- After applying the spray, wait a few minutes.

**22** Install the wheel.




## AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. BMW E90

**23** Screw in the wheel bolts. Use wheel impact socket #17.




**24** Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 120 Nm torque.



## Replacement: brake pads – BMW E90. Tip:

- Without starting the engine, press the brake pedal several times until you feel significant resistance.

**25** Remove the jacks and chocks.



## Replacement: brake pads – BMW E90. Tip from AUTODOC experts:

- Check the brake fluid level in the expansion tank and refill if necessary.

**26** Tighten the brake fluid reservoir cap. Close the hood.



Replacement: brake pads – BMW E90. AUTODOC recommends:

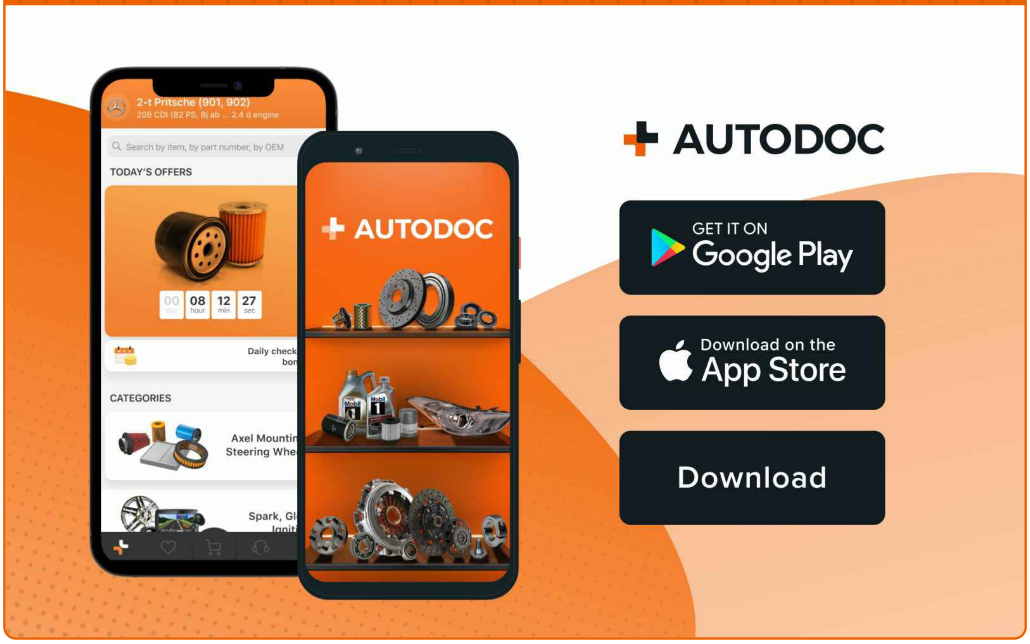
- Slow down smoothly for first 150-200 km after the brake pads replacement. Avoid unneccessary and sharp braking to a stop.

## WELL DONE!

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